

## DIAL-UP ACCESS TO THE NORTHWESTERN UNIVERSITY LIBRARY COMPUTER CATALOG

Many microcomputers, equipped with a modem and the proper communications software, can access the Library computer catalog. Almost any standard ASCII terminal with 80 columns per line can be used also. A communications package can make your micro emulate a common terminal (VT100, VT52, ADI13A or ADI15A, for example). Check your manual or with your micro dealer if you don't know what your package does. Due to current limitations, modems which operate at speeds below 30 characters per second (300 baud) or which are the Vadic 3400-type cannot be used.

### SETTING EQUIPMENT OPTIONS

Basic settings for micros and terminals are the same, but a micro should be set to terminal emulation, not native mode. Use your micro communications package to set up your micro. VT100 or VT52 are commonly available in terminal emulation programs, tested to work on an IBM PC in the Library; other terminal types may work as well. If you have no emulation, use TTY.

Set to:    Full duplex  
          Even parity  
          300 or 1200 baud  
          7 bit data bit, 1 stop bit.  
          (Micro or terminal and modem must be  
          the same baud rate)

### CONNECTING TO THE LIBRARY'S SYSTEM

Switch the micro, or terminal and modem, on. Once the micro is on and the software is loaded, dial the following phone number, direct to the Library's computer:

491-3070

After the computer answers with a high-pitched tone, connect your modem to the telephone line. Using a micro package, you will usually have a menu from which to choose, including dialing up. When the "carrier" indicator comes on, press the RETURN key.

Once you have been connected, you should see the following messages on the terminal: "NORTHWESTERN UNIVERSITY LIBRARY" and "ENTER TERMINAL TYPE". The coded terminal types are optimized

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This usually consists of throwing a switch on a direct-connect modem, or inserting the telephone handset into an acoustically coupled modem.

for the various keyboards and displays. If your terminal or emulation mode matches (or is compatible with) one of the displayed types, use that code. If not, "TTY" will work on almost any terminal.\* Type the code (in upper or lower case) and press the RETURN key.

The computer will then clear the screen. Press the CLEAR key (or its equivalent; see below). You should get the LUIS (Library User Information Service) program. If you do not, the system is not operating. Please try again later.

### KEYBOARD EQUIVALENCES

Every machine has a slightly different assortment of keys. The function performed by each key depends on the terminal type that you select.

<u>FUNCTION</u>	<u>DESCRIPTION</u>
ENTER	On most micros/terminals you use the RETURN key. On the VT52, VT100, Z19, and Z89 the ENTER key (on the far right side of the keyboard) <u>must</u> be used.
CLEAR	There is no standard "CLEAR" key. If your micro/terminal has a key labelled "CLEAR" or something similar ("CLEAR SPACE", "CLEAR DSPLY", etc.), try it. If it only clears your screen and doesn't cause an instruction screen to be displayed, don't use it. The following list shows the "CLEAR" keys for some terminal types: AD:3A, AD:15, AD:21, AD:22      CTRL/Z ** AD:31                              CHAR INSERT DI:3025, DI:3045                  CR NP2621                              f4 (i.e., SHIFT/ROLL down)                 f4 TV912                                ESC

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\*Specifying "TTY" causes the computer to send a carriage return and line feed at the end of each line. Some micros/terminals automatically perform a carriage return and line feed when the line is full, causing a blank line to appear on the terminal. If you can turn this "auto new-line" feature off, you should do so. The output format on printing terminals, as opposed to a video screen, can look somewhat odd.

\*\*The notation CTRL/ and SHIFT/ means that you press and hold the specified key, then type the following character.

(CLEAR)

VT52, VT100, Z19, Z89

zero key in the  
numeric keypad"  
ESCAPE or  
FORM FEED or  
CTRL/L

TTY

TAB

Most micros/terminals have a key labelled "TAB" which will work. If not, type CTRL/I. On the HP2621, "TAB" doesn't work; use the "f2" (SHIFT/home down) key.

CORRECT A  
TYPING ERROR

While you can always use the CLEAR function to erase an error, CLEAR also terminates your LUIS search. You can use the TAB function to return to the beginning of the input line, and then you can type over your previous command. Be sure to blank out (with the space bar or "DELETE LINE" or similar key) any leftover characters in the input line. You can also remove a single character by back spacing to it and deleting or typing over it. On TTY type terminals only, you can tell the computer to ignore everything you've typed by pressing the LINE FEED key.

BACK SPACE

If your micro/terminal has a "cursor left" key, use it (on the HP2621, use the SHIFT/cursor left key). If not, but you have a key labelled "BACK SPACE", use it. If you don't have either one, type CTRL/H. If you back space too far, the computer will beep when you try to type a character. Use the TAB function to move the cursor back into the input area.

DELETE A  
CHARACTER

Every micro/terminal has a key labelled "DEL", "RUB OUT", "CHAR DELETE", or something similar, which will work. Unlike some computer systems, the Library computer deletes the character at the cursor, not the one to the left of it.

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The numeric keypad is located to the right of the main keyboard.

## RESET

If the computer responds with a beep when you type, and you have already tabbed into the input area, or if your display has become garbled, then you should reset your machine. For most terminal types, use CTRL/G. On the TV912, use the BLOCK CONV key; on the TV925, use the PRINT key.

## STOP OUTPUT FROM THE COMPUTER

The Library computer does not support the BREAK key. If you press BREAK, you will have to reset your micro/terminal. However, you do not have to wait for the computer to finish transmitting before you can enter a new command. Just type your command (it won't appear on the screen) and ENTER. The computer will stop transmitting your old screen and start transmitting a new one.

## LOGGING OFF

Disconnect your modem from the phone line and hang up, or select the disconnect option from the micro menu display.

## ASSISTANCE

If you are using a microcomputer as a terminal and are having technical problems, please call the Microcomputer Support Group at 312-491-4386.

If you have problems using the LUIS program, please call the Library Reference Department at 312-491-7656.

rev.:isd.su-s1-public  
smr.dialup  
March 1, 1985